

FIG.2A

LOCUS	HSU22027	7215 bp	DNA	PRI	22-OCT-1995
DEFINITION	Human cytochrome P450 (CYP2A6V2) gene, complete cds.				
ACCESSION	U22027				
NID	g1008461				
KEYWORDS					
SOURCE	human.				
ORGANISM	Homo sapiens				
REFERENCE	Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata; Vertebrata; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
AUTHORS	1 (bases 1 to 7215) Fernandez-Salguero, P., Hoffman, S.M., Cholerton, S., Mohrenweiser, H., Raunio, H., Rautio, A., Pelkonen, O., Huang, J.D., Evans, W.E., Idle, J.R. et, al.				
TITLE	A genetic polymorphism in coumarin 7-hydroxylation: sequence of the human CYP2A genes and identification of variant CYP2A6 alleles				
JOURNAL	Am. J. Hum. Genet. 57 (3), 651-660 (1995)				
MEDLINE	95397851				
REFERENCE	2 (bases 1 to 7215)				
AUTHORS	Fernandez-Salguero, P.				
TITLE	Direct Submission				
JOURNAL	Submitted (01-MAR-1995) Pedro Fernandez-Salguero, National Institutes of Health, 9000 Rockville Pike, Bethesda, MD 20894, USA				
FEATURES	Location/Qualifiers				
source	1..7215 /organism="Homo sapiens"				

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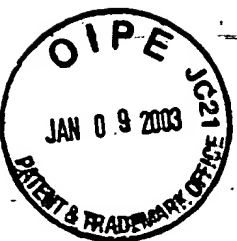


FIG.2A CONT.

5'UTR
CDS

782..790
join (791..970, 1237..1399, 2115..2264, 2499..2659,
3207..3383, 4257..4398,4873..5060,5577..5718, 6308..6489)

/gene=CYP2A6V2:

/codon_start=1

/product=cytochrome P450"

/db_xref-PID:g1008462"

/translation=MLASGMLLVALLACLTVMVLMVSWQQRKSKGLPPGPTPLPFIG
NYLQLNTEQMYNSLMKISERYGPVFTIHLGPRRVVLCGHDAVREALVDOAEFSGRG
EQATFDWVFKGYGVFSGNERAKQLRFAIATLRDFGVGKRGIEERIQEESGFLIEAI
RSTHGANIDPTFFLSRTVSNVISSIVFGDRFDYKDKFLLSLRMGLGFQFTSTSTGQ
LYEMFSSVMKHLPGPQQQAFQLQLGLEDFIAKKVEHNQRTLDPNSPRDFIDSFLIRMQ
EEKNPNTTEFYLKNLMSTLNLFIAGTETVSTTLGYGFLLMKHPEVEAKVHEIDRV
IGKNRQPKFEDRAKMPYMEAVIHEIQRFQDVIPMSLARVKKDTKFRDFLPGIEVF
PMLGSVLRDLRFFSNPRDFNPQHFLGEGKQFKKRDADFVPFSIRKRNCFGEGLARMELF
LFTTVMQNFRLKSSQSPKDIDVSPKHVGFAIPRNYTMSFLPR

791..970

/gene=CYP2A6V2:

/number=1

1237..1399

/gene=CYP2A6V2:

/number=2

2115..2264

exon

exon

exon



FIG.2A CONT.

	/gene=CYP2A6V2:
	/number=3
exon	2499..2659
	/gene=CYP2A6V2:
	/number=4
exon	3207..3383
	/gene=CYP2A6V2:
	/number=5
exon	4256..4398
	/gene=CYP2A6V2:
	/number=6
exon	4873..5060
	/gene=CYP2A6V2:
	/number=7
exon	5577..5718
	/gene=CYP2A6V2:
	/number=8
exon	6308..6489
	/gene=CYP2A6V2:
	/number=9
3'UTR	6490..6744
BASE COUNT	1646 a 2196 c 1746 g 1627 t
ORIGIN	

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FIG.2A CONT.

BASE COUNT

1	aagttccctt	gaaatatg	tcgtgtcttc	ctcccccttg	caatgaagaa	gatggcagt
61	gagttcttat	ggcagccatc	ctggcctcac	tctgaagttc	caatgagat	tctgggcattc
121	aagagacagc	tctgggcaaa	gtctaatcaa	gtcagccccct	ggaaccagtg	ctgggtgt
181	gggtttctg	ggagaacg	gctgggttg	ctaacacctc	ctctccag	aaactccaca
241	cccacagccc	tggtcttcc	tagccccgag	actttcaagt	ccatatgct	ggaatccccc
301	ttcctgagac	ccttaacct	gcatacctca	caacagaaga	cccctaalg	cacagccaca
361	cttgtctta	ccctaataaa	accagacct	ttgaltcct	ctcccctga	acccccagat
421	ccgcacaact	ttgggtgca	ttctcactc	cagaccccaa	atccaaagcc	caagtgtcc
481	cctatgcaaa	tattccaac	tcctcagttc	tacagcttat	ctgtgtcccc	ctcctaatac
541	caacagccctg	cggcaccctt	cctgaagtac	cacagattta	gtctggagcc	ccccctctg
601	ttcagctgcc	ctgggtctcc	cttatcctcc	ctgtctggct	gtgtcccaag	ctaggcagga
661	ttcatgtg	ggcatgtagt	tggaagtga	aatgaagttaa	ttatgtaatc	agccaaagtc
721	catccctctt	tttcagggcag	tataaaggca	aaccacccca	ggcgtcacca	tctatcatcc
781	ctctaccacc	atgctggcct	cagggatgt	tctgttgcc	ttgctggcct	gcctgactgt
841	gatgtcttg	atgtctgtt	ggcagcagag	gaaagaagcaag	gggaagctgc	ctccgggacc
901	caccccattg	cccttcattg	gaaactacct	gcagctgaac	acagagcaga	tgtacaactc
961	cctcatgaag	gtgtcccaag	acagggagat	gggtgtctcg	gggtgggggc	tgccctagttg
1021	gctggggctt	tgtygcaggy	ggttgaccag	tgtgaccag	agtccttagga	aatggagttt
1081	tggaatttca	gcatcagaaa	gacaggatct	tggaatgtcc	agtcctctga	ctgtgagaac
1141	ctgggtgcga	agcatccag	cacatgacat	ctcgtgtctg	ggccccaltc	agagtggag
1201	gttctccctc	taaccactcc	caccacactc	catcagatca	gtgagcgcta	tggtcccggtg
1261	ttcaccatlc	acttggggcc	ccggcggtgc	gtgtgtctgt	gtggacatga	tgccgtcagg

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FIG.2A CONT.

1321 gaggcctctgg tggaccaggc tgaggagttc agcgggcgag gcgagcaagc caccctcgac
 1381 tgggtcttca aaggtatag tgcccaagag ggggaagtg ggcagtgga cacgaagtc
 1441 tcagtgltcc cagcctctc cctgactctc ctgacaactg gagataag gagagtcctc
 1501 agtctgtct tccctcccca tctccctaca ttggggcctc tccatgtgta tccctacct
 1561 gtctccagcg gccctgtcct gattcctccc tgcctctctc tgccccaact ccttattctc
 1621 tctcactgga gtctcctct tccctctctc tccctctctc ctccatctct tgggttctg
 1681 tttaaccagcc ctgggtctct gtctacatga gtctttgag ccctcttagc ttctgggctt
 1741 ctctgggtt ctcatctctc cggatccct tctcaattct tcctctgtct taggatgcc
 1801 gggttattcc tactccaaca tcttcaggt ccattctctg gtaacagtc ctctcctc
 1861 cagaacctct ctgttctat ctcaatatta aactctctg tccagctcag cttaagaatc
 1921 tcacaccaag agaggtatgc ctccaccag atctcccat atctcactac cccaccctcc
 1981 atcctctgcc tccatcactc tcttctctc cccactggcc tgcggacgcg atccaatga
 2041 gtgtgagct aatgccgtga agctatgtgc atctctctgt ctggccgtac ctggtata
 2101 acctgacga ctaggcgtg tattcagcaa cggggagcgc gccaaagcag tcctgcgctt
 2161 tggcatcgcc acctgaggg acttcgggt gggcaagcga ggcattcgag agcgcatcca
 2221 ggaggagtcg ggttcctca tcgaggccat ccggagcacg cacggtgagc agggacccc
 2281 gagtgcgggg gcaggagaag gaaaacaccc aggacgagga acccgcgcg gtctgcctg
 2341 ggatgggga ctagtgggg aaagcgcccc gcaattccag ccctggagtc tggcgctgg
 2401 aatttgctc aacaagcccc tgcctcctg aattctgact ctctcagac ctctgagttg
 2461 actctctccc caacccctt ctcccgacat acccggaagc gccaatatcg atcccaactt
 2521 ctctctgagc cgcacagtc ccaatgtcat cagctccatt gtctttggg accgctttga
 2581 ctataagga aaagagttcc tgtcaactgt gcgcagtatg ctagaatct tccagttcac
 2641 gtcaacctcc acggggcagg taatgtgtgc agcccgcccc gtgaagggcc ttaacaaaac



FIG.2A CONT.

2701 cggcaaatgt ttccctacc gggggaagg ggcaccaat lcccaaccgc ccccgacag
 2761 tgtccctca aatcagtc ccgattlgy caaatlgyca gagtgaacc agaccgggt
 2821 tggttgtcca atccctgtct ctccaggac accgggatat cacaacagat gctcccaaa
 2881 acagaagctg ctggcaggat gcataccctc agtcagctc tctaacctg ggcagtglt
 2941 cccatcccca acttaccgt aatttctaac agatgtlccc taaccagtc ttctgaata
 3001 tttaaccacc cgyaaacct ggttacctaa ccttcctgt aaactltaga gatlagtlcc
 3061 tatccggccc ctctgaata cctaaccacc ggagaccaga tgccttaac tcagttcct
 3121 ccttgctatg aaacaaatcc caltcccatc agctcctgccc cgtgacagc tgtcctccc
 3181 ttcccatcct ctctctgcaa ccccaagctct atgagatgtt ctctcgtg atgaacacc
 3241 tggcaggacc gcagcaacag gcccttcagt tggtagaagg gctgagagac ttcatagcca
 3301 agaaggtgga gcacaaccag cgcacgctgy atcccaatlc cccacgggac ttcatlgact
 3361 ccttctcat ccgcattgcag gagtatacacc ccagcagcca ctgcggggag atgcaagcc
 3241 aggcagaggg aaatcagttc ggagtgggg caggcagatg acacaggccc altcaaatla
 3481 accctcatca taataatcct cacaatlgyt tgggtgccgt ggctaacagc ctgtaatccc
 3541 agcactltgg gagccgaggg caggtgatac acctgaggtc aggaattcga gaccagcctg
 3601 gccaacatlg tcaaaccccg tcttactaa aaatccaaaa atagttggg catgtlgycg
 3661 cgaagggggg cagaggtlgt aatgagccaa gatcacggca ttgcaactcca gtctgggtga
 3721 cagaatgagg ccctgtgtca aaaaaaaltta atcaattgtt taaaaagtaa gtgagcctgc
 3781 atgtcatgct gcatgtlgtcag ctccagctac tcagaggtc gaggtlgyag gattgtlga
 3841 gctcagagat tggcgtlccgg cctgtgcaac ttagcaagac caagtlcagta taagaaaaaa
 3901 aaaaaaaca aaaaagctg acagctaatg tgaataatga cggacagatg gtcagcaagg
 3961 taacgaaggt gaggaaggaag agcatlgygg gcaacggcag gattcagggc aaggcctgt



FIG.2A CONT.

4021 tcctagagcg agtctggtag gatctaaggc ccctctctc caccctgcg tcttgccca
 4081 aagagaggtc gaggtgtctg ggattgcgt agactcgagt ctgtgtagat ctggygtcc
 4141 cctcttgacc cccattgttc tgaacctaa agtgyaagat ccatggygtg aaccctaga
 4201 tgytgccctg aggtcaagca ggaagtgaagt tgtcctaag cccctctcc cttagaggg
 4261 agaagaaccc caaccgag tctacttga agaacctgat gatgagcacg ttgaacctc
 4321 tcatlgcag caccgagacg gtcagcacca ccctgcacta tggctcta ctgtcatga
 4381 agcaccacaga ggtggaaggt aaggtctgag ggggaacggaa gtggaaggcc ccagaccctc
 4441 aaaatccccc ttcgactggt gcaatgtccc cactgtccc agatccggy accctgagac
 4501 gtgacttgct gtccagagac agggcaacat tcagctgta ggcatacgt gagtctcat
 4561 agatatataa atatgaaaa tgtctgcact gatgtgtcag tcaattctgt cccaagccca
 4621 ctgagtgccc actgcccgt ccaccggtc atccctaag ttcctccctg tgcctccct
 4681 gtgattctgy cacaacctgy ttaacagat cctactccaa caatgcgaat ggtgatgtc
 4741 tgttctgtta tgaatgctc acttccgtc catagggga ggcattcat caccccalt
 4801 ttgcctatcc ggaatcat ttcctgtct gagacccta gatacctaaa cacattccc
 4861 ctctccccc agccaagtc catgagga ttagcagagt gatcgcaag aaccgycagc
 4921 ccaagtttga ggaacgggc aagatgccct acatggagc agtgalccac gagatccaaa
 4981 gatttgaga cgtgatccc atgaglttg cccgcagagt caaaaagac accaagtttc
 5041 gggatttctt cctccctaag gtgtatccg ccccacccc cattagaagc ttctagacc ctgtcccaact
 5101 cccctctctg tgtcccagc atcccaccca cattagaagc ttctagacc ctgtcccaact
 5161 ccctcaatca gtcaaaaag acttcccaca ccaccacatc cgttccacct ttccaactag
 5221 acaactctga gtcctgcac tctccagact cttgtgtca ggaagaatcaa acacatgttc
 5281 ccaacttcc tatcttaaga aacagaagcc cccttccat tcggccttt gtcatagga
 5341 cagaatctc agtccccca aactcctgcc tagaagga ca tgaaccccat gtctcccaaa



FIG.2A CONT.

5401 cttccctgttt cagagatgtg aaccttctat cccccaaggt cctccctcag aggtcccca
5461 ttcccatgcc tgcacattcc cctcaccggg gcaccctagt tccccctcca gccctgtgt
5521 actctcaaca atcccccaac ccgctctatc acatacacct tcctcctccc tccagggca
5581 tagaagtgtt ccctatgttg ggctccgtgc tgagagacct caggttcttc tccaacccc
5641 gggaacttcaa tccccagcac ttccctggty agaaggggca gtltaagaag cgtgatgtt
5701 ttgtgccctt ctccatcagt aagagaccac tgtltgtgc caggcttact actcaacca
5761 gcaggggacct cccttaacca gtccccctt ctgccgtgta gcctagtatt tcccagctt
5821 ggcaagttcc tgttagcaat ctaccgtcga gccaccaggt gatactccct taactaccaa
5881 gcaccagta cctgtgccca ggcataaaga aagaaaacat cataccctt tcagaggcgg
5941 ggaaaaacca aagggcagag agaattcagag attatttcc ctagggtcac acagagatt
6001 cttcagcatc cctaaaaag agatgacggc acagcaggtc atatttgya gttcttatc
6061 gggggaagg ggaatctaaa cctccattg tggacacctg gcatcgatca acccatctt
6121 ttgtcatct ttgggtcac tcaaggaac tgaagtcaag gaggttcaag aggtccctc
6181 ttaaagttct tcagggccat atatccacc ctccctccct gggagagccg cagctggag
6241 tcgtacttg ggcgaggtg cactgagagt gggttcacc tccacccctc ccgcctctcc
6301 tcctcagga agcggaactg ttctgyagaa ggcctggcca gaatggagt ctttctctc
6361 ttcaaccacc tcatgcagaa ctccgctc aagtcctccc agtcacctaa ggcacattgac
6421 gtgtcccca aacacgttgg cttggccag atccaacgaa actacaccat gagcttccg
6481 ccccgctgag cgaaggctgt gccgttgaag gtctgttgg cggggccagg gaaaggcag
6541 ggccaagacc gggtctggga gagggcgca gctaagactg ggggcaggat ggcgaaaag
6601 aagggcgctg gtgctagag gaaagagaag aaacagaagc ggctcagttc accttgata
6661 ggtgcttccg agctgggatg agaggaagga aacccttaca ttatgtatg aagagtagta



FIG.2B

LOCUS HSP452B6 1415 bp RNA PRI 29-MAY-1992

DEFINITION Human mRNA FOR CYTOCHROME P-450IIB6.

ACCESSION X13494

NID g35206

KEYWORDS Cytochrome; cytochrome P450IIB6.

SOURCE human.

ORGANISM Homo sapiens

REFERENCE Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata; Vertebrata; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 1415)

AUTHORS Miles, J.S.

TITLE Direct Submission

JOURNAL Submitted (10-NOV-1988) Miles J.S., Imperial Cancer Research Fund, 99 Lab of Molecular Pharmacology and Drug Metabolism, Hugh Robson Building, George Square, Edinburgh, EH8 9XD

REFERENCE 2 (bases 1 to 1415)

AUTHORS Miles, J.S., McLaren, A.Q. and Wolf, C.R.

TITLE Alternative splicing in the human cytochrome P450IIB6 gene generates a high level of aberrant messages

JOURNAL Nucleic Acids Res. 17 (20), 8241-8255 (1989)

MEDLINE 90045947

COMMENT The sequence is a compilation of genomic and cDNA clones. **map: chromosomal location=19q12-13.2;

FEATURES Data kindly reviewed (13-NOV-1989) by Miles, J.S.

Location/Qualifiers

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FIG.2B CONT.

source	1..1415		
	/organism="Homo sapiens"		
misc-feature	9..110		
	/note=exon 1, partial"		
misc-feature	111..273		
	/note=exon 2"		
misc-feature	274..423		
	/note=exon 3"		
misc-feature	424..584		
	/note=exon 4"		
misc-feature	585..761		
	/note=exon 5"		
misc-feature	762..903		
	/note=exon 6"		
misc-feature	904..1091		
	/note=exon 7"		
misc-feature	1092..1233		
	/note=exon 8"		
misc-feature	1234..1415		
	/note=exon 9", coding region"		
BASE COUNT	341 a	430 c	328 g 316 t
ORIGIN	1 gaattccgcc ctgcacccat gaccgcctcc caccaggcc ccgccctctg ccccttgg		

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